

WHAT IS CLAIMED IS:

- 1 1. A contraceptive or sterilization device for occluding a reproductive
2 body lumen to prevent the passage of reproductive cells therethrough, comprising:
3 a) a tubular member having a first end, a second end, and a lumen
4 extending therein, which is at least in part expandable within the reproductive body lumen
5 from a first configuration to a second larger configuration; and
6 b) a mesh member connected to the tubular member, which is permeable
7 to allow for tissue ingrowth to thereby occlude the reproductive body lumen.
- 1 2. A contraceptive device installed within a lumen of the patient's
2 reproductive system, comprising
3 a) a tubular member having a first end, a second end, and a lumen
4 extending therein, and having at least a portion thereof which is secured to a body wall
5 portion defining at least in part the lumen of the patient's reproductive system; and
6 b) an occluding member connected to the tubular member comprising an
7 epithelialized mesh which occludes the lumen of the patient's reproductive system
8 sufficiently to prevent the passage of reproductive cells therethrough.
- 1 3. A contraceptive system, comprising
2 a) a catheter having a proximal end, a distal end, and a lumen extending at
3 least in part therein; and
4 b) a contraceptive device releasably connected to the catheter, having a
5 tubular member having a first end, a second end, and a lumen extending therein, which is
6 at least in part expandable within the reproductive body lumen from a first configuration
7 to a second larger configuration, and having a mesh member connected to the tubular
8 member, which is permeable to allow for tissue ingrowth to thereby occlude the
9 reproductive body lumen.
- 1 4. A method of contraception comprising the steps of:
2 a) inserting within a desired body lumen a contraceptive device comprising
3 a tubular member and a mesh member connected thereto;
4 b) expanding the tubular member within the body lumen;
5 c) securing the expanded tubular member to a wall portion defining at least
6 in part the body lumen; and

7 d) epithelializing the mesh member to occlude the body lumen.

1 5. The method of claim 4 wherein the step of expanding the tubular
2 member comprises the step of releasing a radially compressive force on the tubular
3 member.

1 6. The method of claim 5 wherein the contraceptive device is
2 disposed within a lumen of a delivery catheter, and the step of releasing the radially
3 compressive force comprises longitudinally displacing the tubular member out a distal
4 end of the delivery catheter.

1 7. The method of claim 4 wherein the expanded tubular member is
2 disposed within the body lumen for sufficient time for it to be epithelialized within the
3 body lumen and thereby secured to the wall portion.

1 8. A contraceptive or sterilization device for occluding a fallopian
2 tube to inhibit conception, comprising:

3 a) a tubular structure having a first end, a second end, and a lumen
4 extending therein, the tubular structure expandable within the fallopian tube from a first
5 configuration to a second larger configuration; and

6 b) a tissue ingrowth element connected to the tubular structure, the tissue
7 ingrowth element porous to allow for tissue ingrowth to thereby occlude the fallopian
8 tube.

1 9. A contraceptive device installed within a patient's fallopian tube,
2 comprising

3 a) a tubular structure having a first end, a second end, and a lumen
4 extending therein, and having at least a portion thereof which is secured to a tubal wall
5 portion of the patient's fallopian tube; and

6 b) a tissue ingrowth element connected to the tubular structure comprising
7 a porous matial with tissue ingrowth therein which occludes the patient's fallopian tube
8 sufficiently to disrupt conception.

1 10. A contraceptive system, comprising
2 a) a catheter having a proximal end, a distal end, and a lumen extending
3 therein; and
4 b) a contraceptive device releasably connected to the catheter, having a
5 tubular structure having a first end, a second end, and a lumen extending therein, which is
6 expandable within the reproductive body lumen from a first configuration to a second
7 larger configuration, and having a tissue ingrowth element connected to the tubular
8 structure, which is porous to allow for tissue ingrowth to thereby occlude the reproductive
9 body lumen.

1 11. A method of contraception comprising the steps of:
2 a) inserting within a fallopian tube a contraceptive device comprising a
3 tubular structure and a tissue ingrowth element connected thereto;
4 b) expanding the tubular structure within the body lumen;
5 c) securing the expanded tubular member to a wall portion defining at least
6 in part the fallopian tube; and
7 d) effecting tissue ingrowth into the tissue ingrowth element to occlude the
8 body lumen.